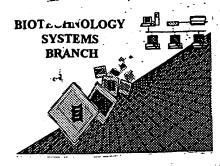
0809

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/9/8,026
Source:	0186
Date Processed by STIC:	8/7/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY FOR CRF SUBMISSION OUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

	10
ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/9/8,026
ATTN: NEW RULES CASE	S: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6Patentin 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences' (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001

OIPE

RAW SEQUENCE LISTING

DATE: 08/07/2001

PATENT APPLICATION: US/09/918,026

TIME: 13:57:45

Input Set : A:\isph-588.txt

Output Set: N:\CRF3\08072001\I918026.raw

4 <110> APPLICANT: Rosanne M. Crooke

Does Not Comply Corrected Diskette Needed

Mark J. Graham

Kristina M. Lemonidis

9 <120> TITLE OF INVENTION: ANTISENSE MODULATION OF ACYL COA CHOLESTEROL

ACYLTRANSFERASE-2 EXPRESSION

11 <130> FILE REFERENCE: ISPH-0588

13 <140> CURRENT APPLICATION NUMBER: US/09/918,026 13 <141> CURRENT FILING DATE: 2001-07-30

13 <160> NUMBER OF SEQ ID NOS: 65

ERRORED SEQUENCES

987 <210> SEQ ID NO: 65

988 <211> LENGTH: 20

989 <212> TYPE: DNA

990 <213> ORGANISM: Artificial Sequence

992 <220> FEATURE:

993 <223> OTHER INFORMATION: Antisense Oligonucleotide

995 <400> SEQUENCE: 65

996 ctaggtatgg caggaccaag

E--> 999/1E--> 1002 18 delete - sel vest pages for more errors

RAW SEQUENCE LISTING DATE: 10/04/2001 PATENT APPLICATION: US/09/918,026 TIME: 18:21:35

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10042001\I918026.raw

199	9 <400> SEQUENCE: 5												
200	cccgggcacc aagga	15											
202	<210> SEQ ID NO: 6												
203	<211> LENGTH: 25												
204	<212> TYPE: DNA												
205	<213> ORGANISM: Artificial Sequence												
207	<220> FEATURE:												
208	<223> OTHER INFORMATION: PCR Probe												
210	<400> SEQUENCE: 6												
211	L ctacgtgtat caggatgggc tgcgg 2												
	<210> SEQ ID NO: 7												
	<211> LENGTH: 19												
	<211> HENGIN. 15												
	<pre>5 <212> TIFE. BNA 5 <213> ORGANISM: Artificial Sequence</pre>												
	3 <220> FEATURE:												
	<223> OTHER INFORMATION: PCR Primer												
	<400> SEQUENCE: 7												
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	<210> SEQ ID NO: 8												
	<211> LENGTH: 20												
	<212> TYPE: DNA												
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	<220> FEATURE:												
	<223> OTHER INFORMATION: PCR Primer												
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	<210> SEQ ID NO: 9												
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	<pre><213> ORGANISM: Artificial Sequence <220> FEATURE:</pre>												
	<223> OTHER INFORMATION: PCR Probe	,											
	<400> SEQUENCE: 9	20											
	caagetteee gtteteagee <210> SEQ ID NO: 10												
	7 <211> LENGTH: 1607												
	<212> TYPE: DNA												
	8 <212> TYPE: DNA 9 <213> ORGANISM: Mus musculus 1 <220> FEATURE: 2 <221> NAME (KEY: CDS												
	C2207 FEATURE:												
	(221) NAME/ REI. CDS												
	<222> LOCATION: (30)(1607)												
	<400> SEQUENCE: 10	53											
	ctgtgtgctg tccgctctac actggcacc atg cag cca aag gtg ccc cag ctt Met Gln Pro Lys Val Pro Gln Leu	33											
257	met Gin Fio hys var Fio Gin hed 1 5												
258	-	101											
260	cgg agg aga gag ctg gga gag gag cag gag aag gga gcc cgt gga	101											
	Arg Arg Arg Glu Gly Leu Gly Glu Glu Glu Lys Gly Ala Arg Gly 10 15 20												
262	20 =-	149											
264	gga gaa ggg aac gca agg aca cac gga acc cca gac ttg gtg caa tgg	143											

RAW SEQUENCE LISTING DATE: 10/04/2001

TIME: 18:21:35

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10042001\I918026.raw

PATENT APPLICATION: US/09/918,026

	265 266	_	Glu	Gly	Asn	Ala	Arg 30	Thr	His	Gly	Thr	Pro 35	Asp	Leu	Val	Gln	Trp 40_		^
W>			~~~	aa+	2+4	asa	-	ata	224	an	cad		cta	gag	caa	gca		197	T) see
W>	260	Thr	Ata	Hi'e	Met	Glu	Δľa	Val	Lvs	Thr	Gln	Phe	Len	Glu	Gln	Ala	Gln		
	270	1111	пта	1113	nec	45		, 41	275		50					55			Den 9
		ana	αaα	tta	gca		cta	ttα	gat	cgg		cta	t.aa	gag	act		caa	245	
	272	Ara	Glu	T.e.ii	Δla	Glu	Len	Len	Asp	Arg	Ala	Leu	Tro	Glu	Ala	Met	Gln		m Enw
	274	**** 9	014	LCu	60					65				-	70				1
		act	tac	ccc		саа	σac	aσa	cct	ctt	ccc	tcc	act	qcc	cca	gat	tct	293	V
	277	Ala	Tvr	Pro	Lvs	Gln	Asp	Arg	Pro	Leu	Pro	Ser	Ala	Ala	Pro	Asp	Ser		Junnary
	278		-1-	75	-1-			,	80					85		-			101
		aca	agc	aaq	acc	ccq	gag	tta	cgc	cct	gga	aaa	cgg	aaa	gtt	ttc	gtc	341	Jen 9 Stem 9 Sunnary Sheet
	281	Thr	Ser	Lys	Thr	Pro	Glu	Leu	Arg	Pro	Gly	Lys	Arg	Lys	Val	Phe	Val		/0/
	282		90	-				95					100						
										cta								389	
	285	Ala	Arg	Lys	Ser	Leu	Ile	Asp	Glu	Leu	Met	Glu	Val	Gln	His	Phe	Arg		
	286						110					115					120		
										ggc								437	
		Thr	Ile	Tyr	His		Phe	Ile	Ala	Gly		Trp	Phe	Leu	Ile		Ser		
	290					125					130					135			
										gag								485	
		Thr	Leu	Ala		Asp	Phe	Ile	Asp	Glu	Gly	Arg	Leu	Met		GLu	Phe		
	294				140					145					150			E 2 2	•
										cag								533	,
		Asp	Leu		Leu	Pne	ser	Pne	160	Gln	ьeu	PIO	ьeu	165	ьeu	Met	TIIT		
	298		~++	155	2+4	++~		+ = +		ctc	ot a	at a	000		car	acc	cta	581	
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				taa	acc	aαα	cca		act	ggg	aat	acc		atσ	cta	aaa	acc	629	
										Gly									
		185	LCu				190	5		1	1	195	1			_	200		
			cta	aac	tac	qtt		ctq	gct	gcc	cac	gct	gtg	gtg	ctc	tgc	gtc	677	
	309	Ser	Leu	Gly	Cys	Val	Leu	Leu	Ăla	Ála	His	Āla	Val	Val	Leu	Cys	Val		•
	310			-	-	205					210					215			
	312	ctg	ccg	gtg	cac	gtg	tca	gtg	agg	cat	gag	ctt	ccg	ccc	gcc	tcg	cgc	725	
	313	Leu	Pro	Val	His	Val	Ser	Val	Arg	His	Glu	Leu	Pro	Pro	Ala	Ser	Arg		
	314				220					225					230				
										aga								773	
	317	Cys	Val		Val	Phe	Glu	Gln		Arg	Leu	Leu	Met		Ser	Tyr	Ser		
	318			235					240					245					,
										atc								821	
				Arg	Glu	Thr	Val			Ile	Phe	Cys			Arg	GIY	ьys		
	322		250			_		255			.		260		a+ -	++-	+~~	960	
	324	ggc	atc	agc	CCC	cca	agt	ttc	tcc	agc	tac	CTC	Tac	Dha	CTC	Dha	Lyc	869	
			Ile	ser	Pro	Pro		ьие	ser	Ser	тyr	ьеи 275	TAL	rne	ьeu	Fue	280		
	326	265		~++		+	270	~~~	200	tac	000		202	000	200	ato		917	
	328	CCT	aca	CLL	atc	Lac	aga n~~	gag	aCd mh∽	Tyr	DYO	ayy	Thr	Dro	Ser	Tle	Ara	211	
	329	Pro	Thr	ьeu	тте	туr	Arg	GIU	THE	тАт	PIO	мIЯ	TIII	FIO	Ser	TIE	ATY		•

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/918,026

DATE: 08/07/2001

TIME: 13:57:46

Input Set : A:\isph-588.txt

Output Set: N:\CRF3\08072001\I918026.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:268 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:10

L:268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10

L:999 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:20 SEQ:65

M:254 Repeated in SeqNo=65